

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number
WO 2005/081326 A1

(51) International Patent Classification⁷: **H01L 31/042**,
31/18, H01M 6/36

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(21) International Application Number:
PCT/US2005/005121

(22) International Filing Date: 18 February 2005 (18.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/545892 19 February 2004 (19.02.2004) US

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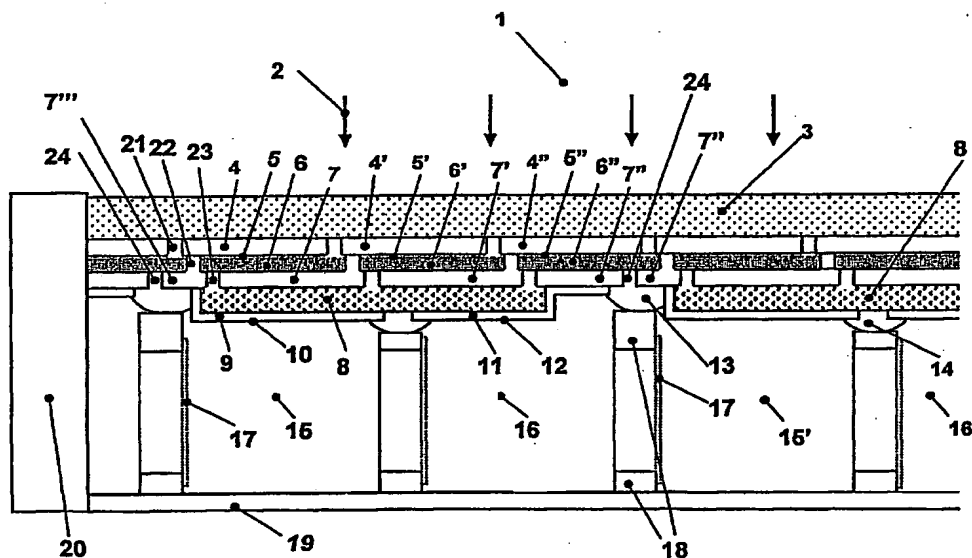
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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

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(54) Title: INTERCONNECTED PHOTOELECTROCHEMICAL CELL



(57) Abstract: An interconnected photoelectrochemical (PEC) cell (1) generates hydrogen and oxygen from water while being illuminated with radiation such as sunlight. The photovoltaic structure in the photoelectrode is deposited on a transparent and insulating substrate (also called superstrate) (3) that is covered with a transparent conducting layer (front electrode) (4). The front electrode is electrically connected to the back side of the photovoltaic structure such that the PEC cell can be made with high efficiency and high durability and at low cost. Three types of photoelectrodes and photoelectrochemical cells are illustrated as examples.

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Published:

— with international search report

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